

Fig. 1

HUMAN: 1 CAGACATCTGTGTCCTCCCTCAAAAGTCACTGCTCCCGGGAGGCTCCGTGCTGGTGACA
 CHIMPANZEE: CAGACATCTGTGTCCTCCCTCAAAAGTCACTGCTCCCGGGAGGCTCCGTGCTGGTGACA
 Q T S V S P P K V I L P R G S V Q V T
 TGCAGCACCTCCTGTGACCGCCCAAGTTGTTGGGCATAGAGACCCCGTTGCTCTAAAAAG
 TGCAGCACCTCCTGTGACCGCCCAAGTTGTTGGGCATAGAGACCCCGTTGCTCTAAAAAG
 C S T S C D Q P D L L G I E T P L P K K
 HUMAN: 121 GAGTTGCTCCTGCTGGGAACAACCGAAGGTGTATGAAGTGAAGCAATGTGCAAGAAGAT
 CHIMPANZEE: GAGTTGCTCCTGCTGGGAACAACCGAAGGTGTATGAAGTGAAGCAATGTGCAAGAAGAT
 E L L G G N N W K V Y E L S N V Q E D
 AGCAACCAATGTGCTATTCAAACCTGCCCTGATGGGCAGTCAACAGCTAAACCTTCCTC
 AGCAACCAATGTGCTATTCAAACCTGCCCTGATGGGCAGTCAACAGCTAAACCTTCCTC
 S Q P M C Y S N C P D G Q S T A K T F L
 HUMAN: 241 ACCGTGTAAGTGAATCCAGAACGGGTGGAAGTGGCAACCCCTCCCTCTTGGCAGCCAGTG
 CHIMPANZEE: ACCGTGTAAGTGAATCCAGAACGGGTGGAAGTGGCAACCCCTCCCTCTTGGCAGCCAGTG
 T V Y W T P E R V E L A P L P S W Q P V
 GGCAGAACCTTACCCTACGCTGCCAGGTGGAGGGTGGGGCACCCCGGGCCCAACCTCACC
 GGCAGAACCTTACCCTACGCTGCCAGGTGGAGGGTGGGGCACCCCGGGCCCAACCTCACC
 G K D L T L R C Q V E G G A P R A N L T
 HUMAN: 361 GTGGTGCTGCTCCGTGGGGAGAGGAGCTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCT
 CHIMPANZEE: GTGGTGCTGCTCCGTGGGGAGAGGAGCTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCT
 V V L R G E K E L K R E P A V G E P A
 GAGGTCAAGCAGCAGGTGCTGGTGAGGAGAGATCACCATGGAGCCCAATTTCTGTCGTCGGC
 GAGGTCAAGCAGCAGGTGCTGGTGAGGAGAGATCACCATGGAGCCCAATTTCTGTCGTCGGC
 E V T T T V L V E R D H H G A N F S C R

FIG. 2

[illegible]

FIG. 2 (CONT.)

HUMAN:	961	CAGCCACTGGGCCCAGGGCCCAGCTCCTGCTGAAGGCCACCCAGAGGACAAACGGGCGC
CHIMPANZEE:		CAGCCAGTGGGCCCAGGGTCCAGCTCCTGCTGAAGGCCACCCAGAGGACAAACGGGCGC Q P V G P R V Q L L K A T P E D N G R
		AGCTTCTCTGCTCTGCAACCCCTGGAGGTGGCCGGCCAGCTTATACACAGAAACCCAGACCC
		AGCTTCTCTGCTCTGCAACCCCTGGAGGTGGCCGGCCAGCTTATACACAGAAACCCAGACCC S F S C S A T L E V A G Q L I H K N Q T
HUMAN:	1081	CGGAGCTTCGTGTCCTGTATGGCCCCGAGCTGGACGAGAGGGATTGTCCGGGAAACTGG
CHIMPANZEE:		CGGAGCTTCGTGTCCTGTATGGCCCCGAGCTGGACGAGAGGGATTGTCCGGGAAACTGG R E L R V L Y G P R L D E R D C P G N W
		ACGTGGCCAGAAAAATCCAGCAGACTCCAAATGTGCCAGGCTTGGGGGAAACCCATTGCCCC
		ACGTGGCCAGAAAAATCCAGCAGACTCCAAATGTGCCAGGCTTGGGGGAAACCCATTGCCCC T W P E N S Q Q T P M C Q A S G N P L P
HUMAN:	1201	GAGCTCAAGTGTCTAAAGGATGGCACTTCCCACTGCCCCATCGGGGAATCAGTGACTGTG
CHIMPANZEE:		GAGCTCAAGTGTCTAAAGGATGGCACTTCCCACTGCCCCATCGGGGAATCAGTGACTGTG E L K C L K D G T F P L P V G E S V T V
		ACTCGAGACTTGGAGGACCTACCTCTGTGCGGGCCAGGACACTCAAGGGAGGTCAACC
		ACTCGAGACTTGGAGGACCTACCTCTGTGCGGGCCAGGACACTCAAGGGAGGTCAACC T R D L E G T Y L C R A R S T Q G E V T
HUMAN:	1321	CGCGAGGTGACCGTGAATGTGCTCTCCCCCGGTATGAGATTGTCATCATCTGTGGTA
CHIMPANZEE:		CGCAAGGTGACCGTGAATGTGCTCTCCCCCGGTATGAGATTGTCATCATCTGTGGTA R K V T V N V L S P R Y E I V I T V V
		GCAGCCGAGTCAATAATGGGCACCTGCAGGCGCTCAGCAGCTACCTCTATAACCGCCAGCGG
		GCAGCCGAGTCAATAATGGGCACCTGCAGGCGCTCAGCAGCTACCTCTATAACCGCCAGCGG A A A V I M G T A G C L S T Y L V N R Q R

FIG. 2 (CONT.)

HUMAN: 1441 AAGATCAAGAAATACAGACTACAACAGGCCCAAAAAGGGA CCCCCATGAAACCGAACA
 CHIMPANZEE: AAGATCAGGAAATACAGACTACAACAGGCTCAAAAAGGGA CCCCCATGAAACCGAACA
 K I R K Y R L Q Q A Q K G T P M K P N T
 CAAGCCACGCCTCCCTGA SEQ ID.: 1
 CAAGCCACGCCTCCCTGA SEQ ID.: 2
 Q A T P ^ ^ ^ SEQ ID.: 3

FIG. 2 (CONT.)

1515 ICMAM
 CAG ACA TCT GTG TCC CCC CCA AAA GTC ATC CTG CCC CGG GGA GGC TCC GTG CTG GTG ACA
 TGC AGC ACC TCC TGT GAC CAG CCC AOC TTG TTG GGC ATA GAG ACC CCG TTG CCT AAA AAG
 GAG TTG CTC CTG CTT GGG AAC CAG AAG GTG TAT GAA CTG AGC AAT GTG CAA GAA GAT
 AGC CAA CCA ATG TGT TAT TCA AAC TGC CTT GAT GGG CAG TCA ACA GCT AAA AOC TTC CTC
 ACC GTG TAC TGG ACT CCA GAA CGG GTG GAA CTG GCA CCC CTC CCT TGG CAG CCA GTG
 GGC AAG GAC CTT ACC CTA CGC TGC CAG GTG GAG GGT GGG CCA CCC CGG GCC AAC CTC ATC
 GTG GTG CTG CTC CQT GGG GAG CTG AAA CGG GAG CAG GAT CAC CAT GGA GCC AAT TTC TTG TGC CGC
 GAG GTC ACG ACC ACG ACG GTG CCG GTG GAG AAA GAT CAG CTT GTC AGC CCT CGG GTC CTA
 ACT GAA CTG GAC CTG CCG CCA GGG CTG AAG CTG CCA GGG ACT CCC CCA CAA CTT GTC AGC
 CAG CTC CAA ACC TTT GTC CTG CCA GGG ACT CCC CCA GGG CTG TTC CCA GTC TCG GAG
 GAG GTG GAC ACG CAG GGG ACT GTG GTC TGT TCC CTG GAC GGG TTG AAC CCC ACA GTC TAT GGC AAC
 GCC CAG GTC CAC CTG GCA CTG GGG GAC CAG AGG TTG AAC ACC CCA GAG GAG GGC ACC CAG TGG
 CAG TCC TTC TCA GCC AAG GCC TCA GTC AGT GTG ACC CCA GAG ACA CTG CAG ACA GTG ACC ATC
 CTG ACG TGT GCA GTA ATA CTG GGG ACC CAG AGC CAG GAG CTC TCA GAA GGG ACC GAG
 TAC ACG TTT CCG GCA CCC AAC GTG ATT CTG ACG AAG CCA GAG GTG ACA CTG ACA TCG GGT CCA GCC
 GTG ACA GTG AAG TGT GAG GCC CAG CTT CTG CTG AAG GCC ACC CCA GAG AAC AAC GGG ACC
 CAG CCA CCG GGC CCG AGG ACC CAG TTC CTG CTG GAG GTG GCC CAG CTT ATA CAC AAG AAC CAG ACC
 AAG TTC TCC TGC TCT GCA ACC CTG CAG GTG GAT GAG AGG GAT TGT CCG GGA AAC TGG
 CCG GAG CTT CQT GTG CTG TAT GGC CCC CCA CTG TGC CCG CCG GAG AAC TCA GTG ACT GTC
 ACG TGG CCA GAA AAT TCC CAG CAG ACT CCA ATG CTG CCG GGC GAA TCA GTG ACT GTC
 GAG CTC AAG TGT CTA AAG GAT GGC ACT TTC CCA CTG CCG GGC GAA TCA GTG ACT GTC
 ACT CCA GAT CTT GAG GGC ACC TAC CTC TGT CCG GCC AAG ACT CAA GGG GAG GTC ACC
 CGC GAG GTG ACC GTG AAT GTG CTC TCC CCC CCG TAT GAG TTT GTC ATC ATC GCT GTG GTA
 GCA GCC GCA GTC ATA ATG GGC ACT GCA GGC CTC AGC AGC TAC CTC TAT AAC GGC CAG CGG
 AAG ATC AGG AAA TAC AGA CTA CMA CAG GCT CAA AAA GGG ACC CCC ATG AAA CCG AAC ACA
 CAA GCC ACG CCT CCC

GORILLA

(SEQ ID NO: 4)

Fig. 3

1515 ICAM
 CAC ACA TCT GTG TCC TCC GGC AAC GTG TTC CTG CCC CGG GGA GGC TCC GTG CTA GTG AAT
 TGC AGC ACC TCC TGT GAC CAG CCC ACC TTG TTG GGC ATA GAG ACC CCG TTG CCT AAA AAG
 GAG TTG CTC CCG GGT GGG AAC TAC TGG AAG ATG TAT GAA CTG AGC AAT GTG CAA GAA GAT
 AGC CAA CCA ATG TGC TAT TCA AAC TGC CCT GAT GGG CAG TCA GCA GCT AAA ACC TTC CTC
 ACC GTG TAC TGG ACT CCA GAA CGG GTG GAA CTG GCA CCC CTC CCC CTC TGG CAG CCA GTG
 GGC AAG AAC CTT ACC CTA CGC TGC CAG GTG GAG GGT GGG GCA CCC CGG GGC AAC CTC AOC
 GTG GTA TTG CTC CGT GGG GAG GAG GTG AGC CGG CAG CCA GCG GGC AAT TTC TCG TCG GCG
 GAG GTC ACG GCC ACG GTG CGG CCC CAA GGG ACT CCG CCA CRA CTT GTC AGC CCC CGG GTC CTA
 ACT GAA CTG GAC CTG CGG CCG CAA GGG CTG GAG CTG TTT GAG AAC ACC TCG GCG CCC CAC
 CAG CTC CAA ACC TTT GTC CTG CCA GCG ACT CCG CCA CRA CTT GTC AGC CCC CGG GTC CTA
 GAG GTG GAC ACG CAG GGG ACC GTG GTC TGT TCC CTG GAG GGG TTG AAC CCC ACA GTG ACC CAG
 GGC CAG GTG CAC TTG GCA CTG GGG GAC CAG AGG TTG AAC CCC ACA GTG ACC CAG TGG
 TAC TCC CTC TCG GCC AAG GCC TCA GTC AGT GTG ACC GCA GAG AAC CCG ACA GTG ACC CAG TGG
 TAC AGC TTT COT GCA CCC AGC AAC CAG AAC CCG CCA GCG CCA GTG ACC CAG AAC CCG ACA GTG
 GTG ATA GTG AAG TGT GAG GCC CAG CCG CCA GCG CCA GTG ACC CAG AAC CCG ACA GTG ACC CAG
 CAG CCG CCG GCC CCG AGG GCG TTC CTG AAG GCC ACC CCA GAG AAC CAG AAC CAG ACC
 AGC TTC TCC TGC TCT GCA ACC CTG GAG GCG GCG CAG CTT ATA CAC AAG AAC CAG AAC
 CAG TGG CCA GAA AAC TCC CAG CAG ACT CCA ATG TGC CAG GCT TGG GGG AAC CCC TTG CCC
 ACT CAG GAT CTT GAG GGC ACC TAC CTC TGT CCA CTG CCC ATC GGG GAA TCA GTG ACT GTC
 GAG CTC AAG TGT CTA AAG GAT GGC ACT TTC CCA CTG CCC ATC GGG GAA TCA GTG ACT GTC
 CCC GAG GTG AOC GTG AAT GTG CTC TCC CCC CGG TAT GAG ATT GTC ATC ACT GTG GTG
 GCA GCC CCA GCC ATA CTG GGC ACT GAG GGC TAC AGC ACG TAC CTC TAT AAC CCG CAG CGG
 AAG ATC AAG ATA TAC AGA CTA CAG GCT CAA AAA GGG ACC CCC ATG AAA CCA AAC ACA
 CAA ACC ACG CTT CCC

(SEQ ID NO:5)

Fig. 4

Human J03132	QTSVSPSKVI	LPRGGSVLVT	CSTSCDQPKL	LGIEITLPPK	ELLPLGNRK
Human X06990	.....	.....	.....	.....	.....
Human X59286-8	.....	.....	.....	.....	.....
Human #4	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human M24283	.....	.....	.....	.....	.....
Human U86814	.....P.....	.....Q.....	.....M.....	.....	.....G...W.
Chimp M86848	.....	.....	.....	.....	.....G...W.
Chimp #1	.....P.....	.....Q.....	.....D.....	.....	.....L...Q.
Gorilla #1	.....P.....	.....	.....T.....	.....	.....L...Q.
Gorilla #2	.....P.....	.....	.....T.....	.....	.....L...Q.
Orang	H...SAN.F	.....N.....	.....T.....	.....	...PG...W.
Human J03132	VVELSNVQED	SQPMCYSNCP	DQSTAKTFL	TVVTPERVE	LAPLESNPV
Human X06990	.....	.....	.....	.....	.....
Human X59286-8	.....	.....	.....	.....	.....
Human #4	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human M24283	.....	.....	.....	.....	.....
Human U86814	.....	.....	.....	.....	.....
Chimp M86848	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Orang	M.....	.....A.....	.....	.....	.....
Human J03132	GKNLTLCQV	EGGAPRANLT	VLLRGEKEL	KREPANGEP	EVTTVLVR
Human X06990	.....	.....	.....	.....	.....
Human X59286-8	.....	.....	.....	.....	.....
Human #4	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....

(SEQ ID NO:6)

Fig. 5A

Human M24283	.....	.....	.....	.....	.....	.....
Human U86814	??????????	??????????	??????????	??????????	??????????	??????????
Chimp M86848	..D.....	.....	.....	.....	.....	.....E.
Chimp #1	..D.....	.....	.....	.....	.....	.....E.
Gorilla #1	..D.....	.....	.....	.....	.....	.....P.EK
Gorilla #2	..D.....	.....	.....	.....	.....	.....P.EK
Orang	.....	.....	.....	.....	.....	.....A..A.K
Human J03132	DIHGAMFSCR	TELDLRPQGL	ELFENFSAPY	QLQTFVLDPAT	PPQLVSPRVL	
Human X06990	.....	.....	.....	.....	.....
Human X59286-8	.....	.....	.....	.....	.....
Human #4	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human M24283	.....	.....	.....	.....	.....
Human U86814	??????????	??????????	??????????	??????????	??????????	??????????
Chimp M86848	.....	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....	.....
Gorilla #1	.....L.	.....	.....	.....	.....	.....
Gorilla #2	.....L.	.....	.....	.....	.....	.....
Orang	.....	.....	.....	.....	.....	.....
Human J03132	EVDYQGVVVC	SLDGLFPVSE	AQVHLALGDQ	RLNPTVTYGN	DSFSKASVVS	
Human X06990	.....	.....	.....	.....	.....
Human X59286-8	.....	.....	.....	.....	.....
Human #4	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human M24283	.....	.....	.....	.....	.....
Human U86814	??????????	??????????	??????????	??????????	??????????	??????????
Chimp M86848	.....	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	.....	.....

Fig. 5B

[illegible]

1000

Gorilla #1	...F...A..	.....	..R.....	.....
Gorilla #2	...F...A..	.....	..R.....	.....
Orang	.....	..A.L....	..RI.....	.....
Human J03132	QATPP			
Human X06990	.....		
Human X59286-6	.....		
Human #4	.....		
Human #7	.....		
Human #8	.....		
Human M24283	.....		
Human U86814	?????			
Chimp M86846	.....		
Chimp #1	.....		
Gorilla #1	.....		
Gorilla #2	.....		
Orang	.T...			

Fig. 5E

Human M32331	SDEKVFVHV	RPKKLAVEPK	GSLEVNCSST	CNQPEVGGLE	TSLDKILLDE
Human #4	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human X15606	.....	.....	.....	.....	..N.....
Chimp #1	.....	.....	...K.....	.....	.....
Chimp #2	.....	.....	...K.....	.....	.....
Gorilla #2	.....	.....	A.....	.....	.....

Human M32331	QAQWKHYLVS	NISHDTVLQC	HFTCSGKQES	MNSNVSVYQP	PRQVILTLPQ
Human #4	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human X15606	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....
Chimp #2	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....

Human M32331	TLVAVGKSFT	IECRVPTVEP	LOSLTLFLFR	GNETLHYETF	GKAAPAPQEA
Human #4	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human X15606	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....
Chimp #2	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	...NQ..	...L...

Human M32331	TATFNSTADR	EDGHRNFSCL	AVLDLMSRGG	NIFHKHSAPK	MLEIYEPVSD
Human #4	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human X15606	.....	.....	.....	.....	.....
Chimp #1	.V.....	D.....	.....	.....	.....
Chimp #2	.V.....	D.....	.....	.....	.....
Gorilla #2	.....	.....	...I...	...QE...	.....

(SEQ ID NO:7)

Fig. 6A

Human M32331	SQMVIIVTVV	SVLLSLFVTS	VLLCFIFGQH	LRQQRMGTYG	VRAAWRRLPQ
Human #4	.....	.....	.....	.....	.....
Human #8	.....	.....	.....	.....	.....
Human X15606	.....	.....	.....	.....	.....
Chimp #1	.....	.....	.....	.....	.....
Chimp #2	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Human M32331	AFRP				
Human #4	....			
Human #8	....			
Human X15606	....			
Chimp #1	....			
Chimp #2	....			
Gorilla #2	....			

Fig. 6B

Human X69819	QEFLLRVEPQ	NPVLSAGGSL	FVNCSTDCPS	SEKIALETSL	SKELVASGMG
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	F.....	.....
Chimp #3	.....	.....	.....	.....	.....
Chimp #4	.....	.....	.....	.....	.....
Chimp #5	.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Orang	.....	...P....	L.....	.K.....	....DN...

Human X69819	WAAFNLNVNT	GNSRILCSVY	CNGSQITGSS	NITVYGLPER	VELAPLPPWQ
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	...R...	.....
Chimp #4	.....	.....	.....	...R...	.....
Chimp #5	.....	.....	.....	...R...	.....
Gorilla #1	.....	.....	.....	...R...	.....
Gorilla #2	.....	.....	.....	...R...	.....
Orang	...Y.....	.....	...I...	...R...	....L...

Human X69819	PVGQNFTLRC	QVEGGSPRTS	LTVVLLRWE	ELSRQPAVEE	PAEVTATVLA
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	Q.....	.....	.....	.....	.....
Chimp #4	Q.....	.....	.....	.....	.....
Chimp #5	R.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	...P...
Gorilla #2	.....	.....	.....	.....	...P...

(SEQ ID NO:8)

Fig. 7A

Human X69819	SRDDHGAPFS	CRTELDMQPQ	GLGLFVNTSA	PRQLRTFVLP	VTTPRLVAPR
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....	.....
Chimp #4	.....	.....	.....	.....	.....
Chimp #5	.....	.....	.....	.....	.....
Gorilla #1	..G.....	.....	.....	.....	M.....
Gorilla #2	..G.....	.....	.....	.....	M...S...
Orang	..GH...H..	.....	.....	.....	.....
Human X69819	FLEVETSWPV	DCTLDGLFPA	SEAQVYLALG	DQMLNATVMN	HGDTLTATAT
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....	.....
Chimp #4	.....	.....	.....	.....	.....
Chimp #5	.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Orang	...A.....	.....	.....	.....V.	.....
Human X69819	ATARADQEGA	REIVCNVTLG	GERREARENL	TVFSFLGPV	NLSEPTAHEG
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....T.	.....P..

Fig. 7B

Chimp #4	.....	.....	.....	.....T.	.....P..
Chimp #5	.....	.....	.....	.....T.	.....P..
Gorilla #1	...L.....	.....	.....	...I.....	.....P..
Gorilla #2	...L.....	.....	.....	...I.....	.....P..
Orang	.M.....	Q.....	.....	.....L	.....S.P..
Human X69819	STVTVSCMAG	ARVQVTLDGV	PAAAPGQPAQ	LQLNATESDD	GRSFFCSATL
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....	R.....
Chimp #4	.....	.....	.....	.....	R.....
Chimp #5	.....	.....	.....	.....	R.....
Gorilla #1	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Orang	.....	.....	.....	.....	.....
Human X69819	EVDGEFLHRN	SSVQLRVLYG	PKIDRATCPQ	HLKWKDKTRH	VLQCQARGNP
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....T.	.....
Chimp #4	.....	.....	.....	.....T.	.....
Chimp #5	.....	.....	.....	.....T.	.....
Gorilla #1	.....	.....	.....	.....T.	.....
Gorilla #2	.....	.....	.....	.....T.	.....
Orang	.....F...	.....	.....	.....	.....
Human X69819	YPELRCLKEG	SSREVPVGIP	FFVNVTHNGT	YQCQASSRG	KYTLVVVMDI
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....
Human #7	.....	.....	.....	.....	.....

Fig. 7C

Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	.....	.....
Chimp #4	.....	.....	.....	.....	.....
Chimp #5	.....	.....	.....	.....	.....
Gorilla #1	.....	.....	.....	.....	.....
Gorilla #2	.....	.....	.....	.....	.....
Orang	H.....	.....	.....	.....	R.....
Human X69819	EAGSSHFVPV	FVAVLLTLGV	VTIVLALMYV	FREHQRSGSY	HVREESTYLP
Human #4	.....	.....	.....	.....	.....
Human #5	.....	.....	.....	.....	.....T.....
Human #7	.....	.....	.....	.....	.....
Human S50015	.....	.....	.....	.....	.....
Chimp #3	.....	.....	.....	...K.....	.....
Chimp #4	.....	.....	.....	...K.....	.....
Chimp #5	.....	.....	.....	...K.....	.....
Gorilla #1	.....	.....	.....	...K.....	.....
Gorilla #2	.....	.....	.....	...K.....	.....
Orang	...N...L.	.L...V...	..V.V....	...K...R.	...Q...S.
Human X69819	LTSMQPTAM	GEEPSRAE			
Human #4	.....	.....	
Human #5	.....	.....	
Human #7	.....	.....	
Human S50015	.....	.....	
Chimp #3	.....Q..	.....		
Chimp #4	.....Q..	.....		
Chimp #5	.....	.....	
Gorilla #1	.....	.....	
Gorilla #2	.....	.....	
Orang	.....	.....T..			

Fig. 7D

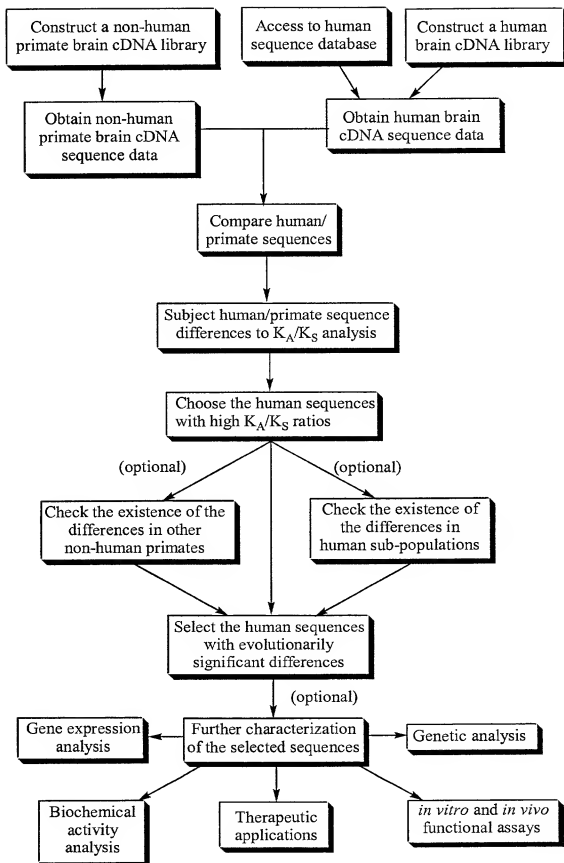


Fig. 8

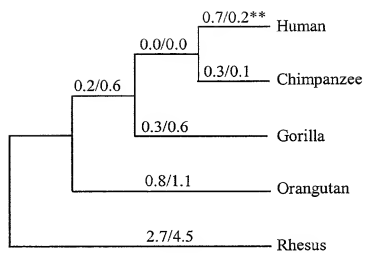


Fig. 9

10098600.031402

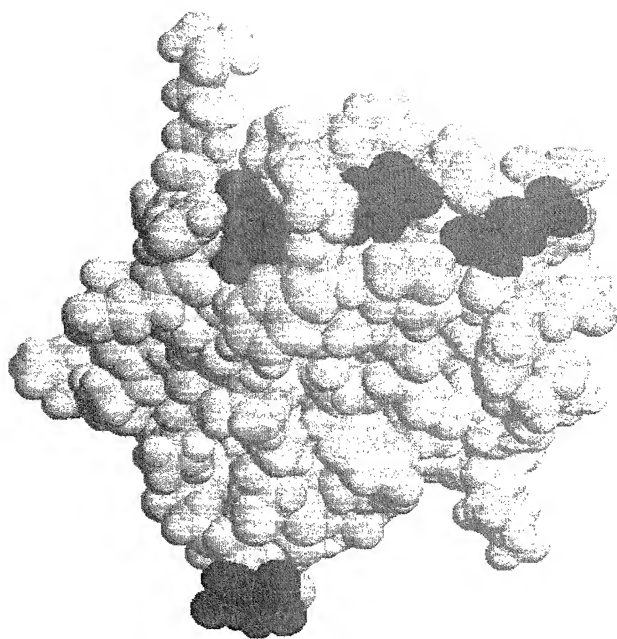


Fig. 10

Human

ATGAGTGACTCCAAGGAACCAAGACTGCAGAGCTGGGCTCTCTGGAGGAGGAACA
 GCTGAGAGGCCTTGGATTCCGACAGACTCGAGGATACAAGAGCTTAGCAGGGTGTCT
 TTGGCCATGTGCCCTGGTGTGC'AACCTCTCTCTTACGCTCTTGGCTGGGCTCCT
 TGTCC'AAGTGTCC'AAGTCCCAGCTCCATAAGTCAGGAACAATCCAGGCAAGACG
 CGATACAGAAACCTGACCCAGCTTAAAGCTGCAGTGGGTGAGCTCTCAGAGAAA
 TCCAAGCTCAGGAGATCTACAGGAGCTGACCCAGCTGAAGGCTGCAGTGGGTGA
 GCTTCCAGAGAAATCTAAAGCTCAGGAGATCTACCAGGAGCTGACCCGGCTGAAGG
 CTGCAAGTGGGTGAGCTTCCAGAGAAATCTAAGCTGCAGGAGATCTACAGGAGCTG
 ACCTGGCTGAAGGCTGCAGTGGGTGAGCTTCCAGAGAAATCTAAGATGCAGGAGAT
 CTACCAGGAGCTACTCGGCTGAAGGCTGCAGTGGGTGAGCTTCCAGAGAAA'TCTA
 AGCAGCAGGAGATCTACAGGAGCTGACCCGCTGAAGGCTGCAGTGGGTGAGCTT
 CCAGAGAAATCTAAGCAGCAGGAGATCTACCAGGAGCTGACCCGCTGAAGGCTGC
 AGTGGGTGAGCTTCCAGAGAAATCTAAGCAGCAGGAGATCTACCAGGAGCTGACC
 CAGCTGAAGGCTGCAAGTGGAAACCCCTGTGCCACCCCTGTCTCGGGAATGGACATT
 CTTC'AAGGAACCTGTACTTCTATGTCTA'CTCCAGCGGA'ACTGGCACGACTCCAT
 CACCGCTGCA'AGAAGTGGGGCCAGCTCGTGT'ATCAAAAGTGTGAGGAGC
 AGA'ACTTCTACAGCTGCAGTCTTCCAGAAGTAAACCGCTTACCTGGA'TGGGACTTT
 CAGATCTAAATCAGGAAGGCAGTGTGCAATGGGTGGACGGCTCACCTCTGTTCGCC
 AGCTTCAAGCAGTAATTGGAACAGAGAGAGCCAA'CAACGTGTGGGAGGAAGACTG
 CGCGAAATTTAGTGGCAATGGCTGGAACGACACAAATGTAA'TCTTGCCAAATTCG
 GATCTGCAAAAAGTCCGAGCTCTCTGCTCCAGGGATGAAGAACAGTTTCTTCTCC
 AGCCCTTGCCACCCCAACCCCTCTCTGG (SEQ. ID. NO. 9)

Fig. 11

Chimpanzee

ATAGTGACTCCAAGGAACCAAGAGTCAGCAGCTGGGCTCTGGAGGAGGAACA
GCTGAGAGGCTTGGATTCCGACAGACTCGAGGCTACAAGACTTAGCAGGGTCTC
TTGGCATGGTCCCTGGTCTGCACTCTCTCTTCACGCTCTTGGCTGGGCTCCT
TGTCCAAAGTGTCCAAAGTCCCACTCCATAAGTCAAGAAAGATCCAGCAAGACG
TGATTCACAGAACTGACCCAGCTTAAAGCTGACGTGGGTGAGCTCTCAGAAAA
TCCAAAGCTGCAGGAGATCTACAGGAGCTGACCCAGCTGAAGGCTCAGTGGGTGA
GCTTCCAGAGAAATCTAAGCAGCAGGAGATCTACAGGAGCTGACCCGGCTGAAGG
CTGCAGTGGGTGAGCTTCCAGAGAAATCTAAGATGCAAGGAGATCTACAGGAGCTG
ACTCGGCTGAAGGCTGAGTGGGTGAGCTTCCAGAGAAATCTAAGATGCAAGGAGT
CTACAGGAGCTGACTCGGCTGAAGGCTCAGTGGGTGAGCTTCCAGAGAAATCTA
AGCAGAGGAGATCTACAGGAGCTGACCCAGCTGAGGCTGACGTGGGTGAGCTT
CCAGAGAAATCTAAGCAGCAGGAGATCTACAGGAGCTGACCCAGCTGAAGGCTGC
AGTGGGTGAGCTTCCAGAGAAATCTAAGCAGCAGGAGATCTACAGGAGCTGACC
CGGCTGAAGGCTGAGTGGAGCCCTGTGCCGCTGCCCTGGGAATGGACATT
CTTCCAGGAACCTGTACTTCTATGTCTAATCCAGCGGAAGTGGACGACTCCAT
CATTGCTGCAAGAAGTGGGGGCCAGCTGCTGCTAATCAAAAGTCTGAGGAGC
AGAATCTCTACAGCTGCAGTCTCCAGAGTAACCGCTTCCAGCTGATGGACTTT
CAGATCTAAATGAGGAAGGCATGTGGCAATGGGTGGACGGCTCACCTCTGTTCGCC
AGCTTCAACCCAGTAYTGGAAACAGAGAGACCCAAACACGTTGGGGAGGAAGACTG
CGCGAAATTTAGTGGCAAATGGCTGGAATGACGCAAAATGTAATCTTGCCAAAATCTG
GATTCGCAAAAAGTCCGAGCTCTCTGCTCCAGGAGTGAAGAACAGTTCTTCTTCC
AGCCCTGCCACCCCAAAACCCCTCTCTGGC (SEQ. ID. NO. 10)

Fig. 12

Gorilla

ATGAGTGACTCCAAGGAACCAAGACTGCAGCAGCTGGGCCTCTGGAGGGAACA
 GCTGAGAGCCTTGGATTCCGACAGACTGAGGGCTACAAAGACTTAGAGGGTGTC
 TTGGCCATGGTCCCTGGTGTCTCAACTCTCTCTCTCACGCTCTTGGCTGCGCTCT
 TGTCCAAATGTCCAAAGGTCCCAAGCTCCATAAGTCAGGAACAATCCAGGCAAGACG
 CGATCTACCAAGAACCTGACCCAGTTTAAAGCTGCAGTGGGTGAGCTCTCAGAGAA
 TCCAAAGCTGACGGAGATCTATCAGGAGCTGACCCAGCTGAAGGCTGCACTGGGTGA
 GCTTCAGAGAAATCTAAGCAGCAGGAGATCTACCAGGAGCTGAGCCAGCTGAAGG
 CTGACGTGGGTGAGCTTCCAGAGAAATCTAAGCAGCAGGAGATCTCCAGGAGCTG
 ACCGGCTGAAGGCTGACGTGGGTGAGCTTCCAGAGAAATCTAAGCAGCAGGAGAT
 CTACCAAGGAGCTACCCGGCTGAAGGCTGCAGTGGGTGAGCTTCCAGAGAAATCTA
 ACAGCAGGAGATCTACCAGGAGCTGAGCAGCTGAAGGCTGCAGTGGGTGAGCTT
 CCAGAGAAATCTAAGCAGCAGGAGATCTACCAGGAGCTGAGCCAGCTGAAGGCTGC
 AGTGGGTGAGCTTCCAGAGAAATCTAAGCAGCAGGAGATCTACCAGGAGCTGAGC
 CAGCTGAAGGCTGAGTGAACCGCTGTGCGCGCTGCCCTGGGAATGGACATT
 CTTCAGAGAAATCTGTTACTTCACTGTCTAACTCCACGGGAATGGCAGCACTCCAT
 CACCGCTGCCAAGAAATGGGGGCCAGCTGCTGTGTAATCAAAATGTCTGAGGAGC
 AGAACTTCTACAGCTGCTCTCCAGAAAGTAAACCGCTTCACTGTGATGGGACTT
 CAGATCTAAATCATGAAGCAACGTGGCAATGGGTGACGGCTCACTCTGTGCC
 AGCTTCGAGCAGTATTGGAACAGAGGAGGCCAACAACTGTGGGAGGAAGACTG
 CGCGGAATTTAGTGGCAATGGCTGGAACGATGACAAATGTAATCTTGCCAAATCTG
 GATCTGCAAAAGTCTGACGCTCTGCTCCAGGATGAAGAACAGTTTCTTCTCC
 AGCTCTGCCACCCCAACCCCTCTCTGCG (SEQ. ID. NO. 11)

Fig. 13


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1      ctccagacct acccagaaag atgcccggat ggatcctgca gctccgtggc tttctcggga
61     agcagcggcc cctgctctca agagaccctg gctcctgat gtggccccc aa gtttgccagc
121    tgggtctagg gactcaggac agtttccacc aaaagggcaa gcgggcagcc cctccaggsg
181    cggggtgagg aagctggggg gtgcggaggc caacctgggt cctgaaccc cctgcttggt
241    tacagtcgag ctccctcaagt ccacagacgt gggccggcac agcctcctgt acctgaggga
301    aatcggcggt ggtctggttc ggaaggtgtt cctgggggag gtgaactctg gcactcagca
361    tgcccagggt gtgggtgaagg agctgcaggc tagtgccagc tctcggccac tgggggacct
421    cctggaggag gtgcagccct acagggccct gaagcacagc aaactgcctc agtgctcggc
481    ccagtgcgcc gagggtgacgc cctacctgct ggtgatggag tctcggccac tgggggacct
541    caagggttac ctgcggagct gccgggtggc ggagtccatg gctcccgacc cccggacctt
601    cgacgcgatg gccctgtagg tggcctgtgg cgtcctgcac ctctcatgca acaatttcgt
661    gcacagcgac ctggccctgc ggaactgcct gctcacggct gacctgacgg tgaagattgg
721    tgactatggc gtggctcaact gcaagtacag agaggactac ttcgtgactt ccgaccagct
781    gtgggtgcct ctgcgctgga tcgcgccaga gctggtggac gagggtcata gcaacctgct
841    cgtcgtggac cagaccaaga gcgggaatgt gtggtccctg ggcctgacca tctgggagct
901    ctttgagctg ggacgcgacg cctatcccga gcactccgac cagcagggtc tggcgtacac
961    ggtccgggag cagcagctca agctgcccaa gccccagctg cagctgacct cgtcggaccg
1021   ctggtaacag gtgatgcagt tctgctggct gcagcccgag cagcggccca tagcggaggga
1081   ggtgcaacct ctgctgtcct acctgtgtgc caagggcgcc acogaagcag aggaaggagt
1141   tgaacggcgc tggcgctctc tgcgggccgg gtggggcgcc cggggcccg cggccggctg
1201   ggcggggccc atgctggggc gcgtggtgga gctcgcgct gctcgtcct cctcgtcgt
1261   ggagcagctc gcggggcagc gcttccaagc ggaacggcag gacgtgctga cgggtgaccga
1321   gaccagccga gccctcaatt ttgagtacaa gtgggaaggc gggcgcggcg cggagccctt
1381   cccggccacg ctgagccctg gccgcaccgc acgcctgcag gactgtgctg gcccagacgg
1441   cgcgcccccg gccgtggttc cggtgctcag cgcgcacagc ccgtcgttgg gcacgcagta
1501   ettcacccgc ctagaggagg ccgcacccgc cgcggccac gacccctgtg gcacccggcg
1561   cgccccagtc ccactgcga tgcgggcca cggggccccc gtcgacgtcc cagcgtcccg
1621   ctgcctggcc atggagccgc tgcgggcca gggggacccc ctctgcctcc cagcgtccc
1681   cggcgaccac taccctcgca gaagcttggc gcgggacccc cctcgcctcc cagcgtggg
1741   ctgcctccgc gcggggcccc tgagtctggc ggaaggaggga gcggaaggatg ctttggggag
1801   cgtggccgcc ttctgtctgt ccttcttcga ggaccacgtg ggcacgtccc tggggagcgc
1861   ctacggggcg ccccctgtgc cgtgacttgg cgaggatgag cttagaggag gctgccccag
1921   gaggggccgc cagcgcgggc actggcgctc caactgttca gccaacaaca acagcggcag
1981   cegctgtcca gactcctggg acccgtctc tgcgggctgc cactgagag gctgccccag
2041   tccaaagcag accccaaggg cctccccga gccgggggtac cctggttggc cctcgttgg
2101   gctccaggca cctcctgccc agggaccagg ctgctgcccc ggcctccctc atctatgctc
2161   tgcccaggga ctggcacctg ctccctgctt ggttacaccc tctgggagc agacagccag
2221   tagtgggggc gaccaccgcg aggcagagcc caagcttgcc accggaggct agggcactac
2281   cgaaccgcgc ctgcccttc ctccgttccc ctccccatc caggagggag ccccacttc
2341   ctggaggagg gccagtgccc ccgacgcccc tgatgcctcg cctgaactct ccacgctgcg
2401   tactggtggc gagggtgtcg ccatcaagct ggttctgcgc gctatggca ctagcagctc
2461   tcccagggtg gaggcaccca gcagtgagga tgaggacacg gctgaggcca cctcaggcat
2521   ctaccacgaac acgtccagcg accgctcgca ggcacaggag ccggaatggt tgcacccctt
2581   ccgctctctg cagaagcagg tggggacccc gactcctgt gactcctgtg acatcccgct
2641   ctaagccagt gatggtggct atgaggtctt cagcccgctg gccactggcc cctcggagg
2701   cgagcccgga gctggtgaca gtggctatga acacagaac ctagagtctt ctagtcttgt
2761   gctcaaggag gcgcaggaa ggtgtgagcc ccaggccttt gcggaacttg cctcagaggg
2821   tgagggcccc gggccccaga caaggctctc cactccctc agtgccctca acgagaagaa
2881   tctctaccga gactctgect acttctcaga cctcagggtt gaggccgagg ccacctcagg
2941   cccagagaag aagtcggcg ggaacggagc ccccgggcca gactgggctg tgcgagcac
3001   tgggcagccg tctgagcagg tctgtctcag gctcggggtt tccggggagg cacaaggctc

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Figure 14A

3061 tggccccggg gaggtgctgc cccactgct gcagcttgaa gggctctccc cagagcccg
 3121 cactgcccc tcgggcttgg tcccagagcc tccggagccc caagggccag ccaaggtgcg
 3181 gcctgggccc agccccagct gctcccagtt ttctctgctg accccgggtc cgctgagatc
 3241 agaaggcaac agctctgagt tccaggggccc cccaggactg ttgtcagggc cggccccaca
 3301 aaagcggaat gggggcccag gccccccag agcccactc cgcctggctc tgccccgctt
 3361 cctcgcgccc ttggaggggc ggccggagga ggaggaggag gacagtgagg acagcgacga
 3421 gtctgacgag gactccgct gctacagct ccaggagcct agcgaggaca gcgaagagga
 3481 ggcgccggcg gtgcccgtgg tggtaggctga gagccagagc gcgcgcaacc tgcgcagcct
 3541 gctcaagatg cccagcctgc tgtccgagac ctctctgctg gacctggaac gcaagaagaa
 3601 ggccgtgtcc ttcttcgacg acgtcacctg ctacctcttt gaccaggaac gccccaccg
 3661 ggagctcggg gaggccttcc cggggcccaa ggaatcgccc cctacgttcc ttaggggggg
 3721 ccccgctct cccagcgccc ccaaccggcc gcagcaggct gatggctccc caaatggctc
 3781 cacagcggaa gagggtagtg ggttcgctg ggacgagac ttcccgtga tgaccggcaa
 3841 ggcagccttc gccatggccc tagaccggcg cgcacccgccc cggctgcgc ccacgcccac
 3901 gcccgctccc ttctcgcgct tcacgggtgct gcccgcgccc acgtcccgcct tctccatcac
 3961 gcacgtgtct gactcggaag ccgagtcaca gagaggacct gaagctgggt ccgggggtga
 4021 gagttaagag gcttgagacc tgggacgctc ctgcccctca aggtgggctt caccggagcc
 4081 cctgccaggc agcagcgagg atggtgacc agaaggtggg gaccacgtcc tggtaggctg
 4141 tggcagcaga ttccaggtgcc tctgcccac gcggtgtctt ggagaagccc tgggtagtag
 4201 aggccttgga tggtagatcg gccatgctcc gccccagagg cagaattcgt ctgggctttt
 4261 aggtctgtcg ctagccccgt gggggcgctg gagccacagt ggggtgtctgt acacacatac
 4321 acactcaaaa ggggccagtg cccctgggca cggcgggccc caccctctgc cctgcctgcc
 4381 tggcctcgga ggaccgcat gccccatccg cgagctcttc cgtgtgctg acaggacact
 4441 taaaccaggga ctaggcatgg ccccgagaca ctggcagggt tgtgagctc tccccaccc
 4501 ctgtgcccc acccttgccg ggttcctggt ggctcagggc aaggagtggc cctgggcgccc
 4561 cgtgtcggtc ctgtttccgc tgccttcttc tcaaagtcgg tggctgttcc cctctcactg
 4621 actcagctag acccgtaagc ccacccttcc cacagggaac aggtctgctc cactggggtc
 4681 ccgctgtggc caccgtgggc agcccaaaag atcagggggt gaggggcttc caggctgtac
 4741 tctgtgcccg tgggccccgt tctagaggtg cccttggcag gaccgtgcag gcagctcccc
 4801 tctgtggggc agtatctggt cctgtgcccc agctgccaaa ggagagtggt ggccatgccc
 4861 cgcagtcagt gttggggggc tctgcctcac agggagaggg atggtgggga aggggtggag
 4921 ctggggggcag ggcagcacag ggaatatctt tgaactaac taactgcagt ggttgagcgt
 4981 aatggaagtt ggggtatttt aagttattgt tgcctaaagag atgtaaaagt tattgttctt
 5041 tgcaggggg attgtttttg tgtttttgtt gaggcttaga acgctgggtc aatgttttct
 5101 tgttctctgt tttttaagag aaatgaagct aagaaaaag (SEQ ID NO: 14 and 15)

Figure 14A (continued)

MQFLEEVQPYRALKHSNLLQCLAQCAEVTPLYLLVMEFCPLGLDKGYLRSCRVAESMAP
 DPRTLQRMACEVACGVLHLHRNNFVHSDLALRNCLLTADLTVKIGDYGLAHCKYRED
 YFVTADQLWVPLRWIAPELVDEVHSNLLVVDQTKSGNVWSLGVTIWELFELGTQYPYQ
 HSDQQVLAYTVREQQKLKPKQLQLTSLDRWYEVMMQFCWLQPEQRPTAEVHLLLSYL
 CAKGATEAEEEFERRWRSLRPGGGGVGPGPGAAGPMLGGVVLEAAASSFPLEQFAGD
 GFHADGDDVLTVTETSRGLNFKEYKWEAGRGAEAFPATLSPGRTARLQELCAPDGAPP
 VVPVLSAHSPLSGSEYFIRLEEAAPAAGHDPDCAGCAPSPPATADQDDSDGSTAASLA
 MEPLLGHGPPVDVPWGRGDHYPRRSLARDPLCPSRSPSPSAGPLSLAEGGAEDADWGV
 AAFCPAFFEDPLGTSPLGSSGAPPLPLTGEDELEEVGARAAQRGHWRSNVSNANNNGS
 RCPESWDPVSAGCHAEGPCSPKQTPRASPEPGYPGEPLLGLQAASAEQPGCCPGLPHLCS
 AQGLAPAPCLVTPSWTETASSGGDHPQAEPKLATEAEGTTGPRPLPSPVSPSQEGAPLP
 SEEASAPDAPDALPDSPTPATGGEVSAIKLASALNGSSSSPEVEAPSEDEDTAETSGIFT
 DTSSDGLQARRPDVVPAFRSLQKQVGTDPDSLDSLIPSSASDGGYEVFSPSATGPSGGQP
 RALDSGYDTENYESPEFVLKEAQEGCEPQAFaelaseGEGPGPETRLSTSLSGLNEKNPY
 RALDSGYDTENYESPEFVLKEAQEGCEPQAFaelaseGEGPGPETRLSTSLSGLNEKNPY
 RALDSGYDTENYESPEFVLKEAQEGCEPQAFaelaseGEGPGPETRLSTSLSGLNEKNPY
 PGEVLPLLQLEGSSPEPSTCPSGLVPEPPEPQGPakVRPGSPSCSQFFLLTPVPLRSEGN
 SSEFQGGPPGLSGPAPQKRMGGPGTPRAPLRLALPGLPAALEGRPEEEEEDESDESDE
 ELRCYSVQEPSDESDEEAPAVPVVVAESQSARNLRLKMPSSLSETFCEDLERKKKAVS
 FFDDVTVYLFQESPTRELGEFPGAKESPTFLRSGSPSPAPNRPQADGSPNGSTAE
 GGGFAWDDDFPLMTAKAAAFAMALDPAAPAPAAPTTPAPFSRFTVSPAPTSRFSITHVS
 DSDAESKRGEAGAGGESKEA (SEQ ID NO:16)

Figure 14B

GCTCCCTGCCTGGTTACACCTCTCTGGACAGAGACAGCCGGTAGTGGGGGTGACACCCCGCAGGCAGAGCC
 CAAGCTTGCCACGGAGGCTGAGGGCACTGCCGGACCTGTCTGCCCTCTCTCCGTCCCTCCCCATCCC
 AGGAGGGAGCCCCACTTCCCTCGGAGGAGGCCAGTGGCCCTGACGCCCTGATGCCCTGCCTGACTCTCCC
 ATGCTCTGCTACTGGTGGCGAGGTGTCTGCCATCAAGCTGGCTTCTGTCTGAATTGGCAGCAGAGCTCTCC
 CGAGGTGGAGGACCCAGCAGCGAGGATGAGGACACGGCTGAGGCCACCTCAGGCATCTTACCGACACGT
 CCAGCGACGGCTCGAGCGCGAGAGGCTGGATGTGTGCCAGCTTCCGCTCTCTCGAAGCAGGTGGGG
 ACCCCGACTCCCTGGACTCCCTGGACATCCCATCTCAGCCAGTGTGTGGCTATGAGGCTTCTAGCCCT
 GTCGGCAGCTGGCCCTCTGGAGGGCAGCCCCGAGCGCTGGACAGTGGCTATGACACCGAGAACTATGAGT
 CCCCTGAGTTTGGCTCAAGGAGGCGCAGGAAGGTTGTAGGCCCCAGGCCCTTGAGGAGCTGGCTCAGAG
 GGTGAGGGCCCCCGCCCCGGGCCGAGAGCGGCTCTCCACCTCCCTCAGTGGCTCAACGAGAGAAGATCC
 CTACCGAGACTCTGCCTACTTCTCAGACCTGGAGGCTGAGGCCAGGCCAGGCTCAGGCCCAGAGA
 AGAAGTGCGGGGGACCAAGCCCCCGGGCCAGAGCTGGACCTGCGAGCAGCTGGGCAGCCGTCTGAGCAG
 GTCTCCCTCAGGCCCTGGGGTTCCGGGGAGGCCAAGGCTCTGGCCCCGGGAGGTGTGCCCTCAGTGT
 GCGGCTTGAAGGATCTCCCCCAGAGCCAGCAGCTGCCCTCGGGCTGGTCCAGAGCCTCCGAGGCCCT
 AAGGCCCAGCCGAGGTGCGGCTGGGCCAGCCCCAGCTGTCTCCAGTTTTCCTGCTGACCCCGTTCGG
 CTGAGATCAGAAGGCAACAGCTCTGAGTTCAGGGGCCCGCCAGGACTGTTGTACGGCCGGCCCCACAAAA
 GCGGATGGGGGGCTAGCAGCCCCAGAGGCCCACTCCGCTGGCTCTGCGCGGCTCCCTCGCGCTTGG
 AGGGCCGGCCGAGGAGGAGGAGGAGGACAGTGAAGGACAGCGCGAGTCTGACGAGAGCTCCGCTGTAC
 AGCGTCCAGGAGCTAGCGAGGACAGCGAAGGAGGCGCGCGGCGTGCCTGGTGGTGTGAGAGCCA
 GAGCGCGCGCAACTGCGCAGCTGTCTCAAGATGCCAGCTGTCTGTCGAGGCTCTTGTGAGGAGCTGG
 AACGCAAGAAGAAGCGCTGTCTTCTTCGACGAGCTACCGCTCTACTCTTTGACAGGAAGCCGCCAC
 TGGGAGCTCGGGAGGCCCTTCCGGGGGCCAAGGAATCGCCCCACGTTCTTATGGGGAGCCCGGCTC
 TCCAGCGCCCCCAACCGGGCCGACAGCGCTGATGGCTCCCCAAATGGCTCCACAGAGGCAAGAGGGTGGT
 GGTTCGCGTGGGACGAGCACTTCCGCTGATGCCGGCCAAAGCAGCTTCCGCTATGGCCCTAGACCCGGCC
 GCACCGCCCGGCTGCGGCCACGCCCC*****GCTCCCTTCTCGGCTTACGCTGTGCGCCGCGCCAC
 GTCCACGTCCGCTTCTCCATCAGCACGTGTCT (SEQ ID NO:17)

Figure 15A

GCTCCCTGCCTGGTTACACCTCTCTGGACAGAGACAGCGGTAGTGGGGGTGACACCCCGCAGGCAGAGCC
 CAAGCTTGCCACGGAGGCTGAGGGCACTGCCGGACCCCGCTGCCCTCTCTCCGTCCCTCCCCATCCC
 AGGAGGGAGCCCCACTTCCCTCGGAGGAGGCCAGTGGCCCGCAGGCCCTGATGCCCTGCCTGACTCGCC
 ACGCTCTGCTACTGGTGGCGAGGTGTCTGCCACCAAGCTGGCTTCCGCCCTGAATGGCAGCAGAGCTCTCC
 CGAGGTGGAGGCAACCCAGCTGAGGATGAGGACACGGCTGAGGCACTCAGGCATCTTACCCGACACGT
 CCAGCAGCTGGCTCGAGCGCGAGAGGACAGGATGTGGTGGCCAGCTTCCACTCTCTGCAAGCAGGTTGGG
 ATCCCGCACTCCCTGGACTCCCTGGACATCCCGTCTCAGCCAGTGTGTGGCTATGAGGCTCTCAGCCC
 GTGGCCATGGGCCCTCTGGAGGGCAGCCCCGAGCGCTGGACAGTGGCTATGACACCGAGAATATGAGT
 CCCCTGAGTTTGTGCTCAAGGAGGCGCAGGAAGGTTGTGAGCCCCAGGCCCTTTCGGAGCTGGCTCAGAG
 GGGCAGGGC*****CCGGGCCGAGAGCGGGCTCTCACCTCCCTCAGTGGCTCAACGAGAAGAATCC
 CTACCGAGATTCTGCCTACTTCTCAGACCTGGAGGCT*****GAGGCCAGGCTACTCAGGCCCAGAGA
 AGAAGTGCGGTGGGACCAAGCCCCGGGCCAGAGCTGGGCTGCGAGCAGCTGGGCAGCCGTCTGAGCAG
 GTCTCCCTCAGTCTTGGGGTTTCCGTGGAGGCAAGAGGCTCTGCCCGCCGGGAGGTGTGCCCCACTGTCT
 GCGGCTTGAAGGTTCTCCCCCAGAGCCAGCAGCTGCCCTCGGGCTGGTCCAGAGCCTCCGAGGCCCT
 AAGGCCCAGCGAGGTGCGGCTGGGCCAGCCCCAGCTGTCTCCAGTTTTCCTGCTGACCCCGCTTCGG
 CTGAGATCAGAAGGCAACAGCTCTGAGTTCAGGGGCCCGCCAGGACTGTTGTGACGGCCGGCCCCACAAA
 GCGGATGGGGGGCCAGGCCACCCAGAGCCCCACACCGCTGGCTCTGCGCGGCTCCCTCGCGCTTGG
 AGGGCCGGCCGAGGAGGAGGAGGAGGACAGTGAAGGACAGCGAGTCTGACGAGGAGCTCCGCTGTCTAC
 AGCGTCCAGAGCCTAGCGAGGACAGCGAAGGAGGAGGCGCGCGGCGTGCCTGGTGGTGGCTGAGAGCCA
 GAGCGCGCGCAACTGCGCAGCTGTCTCAAGATGCCAGCTGTCTGTCGAGGCTCTTGTGAGGAGCACTGG
 AACGCAAGAAGAAGCGCTGTCTTCTCGACGAGCTACCGCTCTACTCTTTGACAGGAAGCCGCCAC
 CGGGAGCTCGGGAGGCCCTTCCGGGGGCCAAGGAATCGCCCCACGTTCTTGGGGGAGCCCGGCTC
 TTTACCGGCCCCCAACCGGGCCGACAGGCTGATGGCTCCCCAAATGGCTCCACAGCGGAAGAGGGTGGT
 GGTTCGCGTGGGACGAGCACTTCCGCTGATGCCGGCCAAAGCAGCTTCCGCTATGGCCCTAGACCCGGCC
 GCACCGCCCGGCTGCGGCCACGCCCC*****GCTCCCTTCTCGGCTTACGCTGTGCGCCGCGCCAC
 GTCC:::CGCTTCTCCATCAGCACGTGTCT (SEQ ID NO:18)

Figure 15B

Hs	ATG GCA GTG ACA ACT CGT TTG ACA TGG TTG CAC GAA AAG ATC CTG	45
Pt	ATG GCA GTG ACA ACT CGT TTG ACA TGG TTG CAT GAA AAG ATC CTG	
Hs	CAA AAT CAT TTT GGA GGG AAG CGG CTT AGC CTT CTC TAT AAG GGT	90
Pt	CAA AAT CAT TTT GGA GGG AAG CGG CTT AGC CTT CTC TAT AAG GGT	
Hs	AGT GTC CAT GGA TTC CGT AAT GGA GTT TTG CTT GAC AGA TGT TGT	135
Pt	AGT GTC CAT GGA TTC CAT AAT GGA GTT TTG CTT GAC AGA TGT TGT	
Hs	AAT CAA GGG CCT ACT CTA ACA GTG ATT TAT AGT GAA GAT CAT ATT	180
Pt	AAT CAA GGG CCT ACT CTA ACA GTG ATT TAT AGT GAA GAT CAT ATT	
Hs	ATT GGA GCA TAT GCA GAA GAG AGT TAC CAG GAA GGA AAG TAT GCT	225
Pt	ATT GGA GCA TAT GCA GAA GAG GGT TAC CAG GAA AAG TAT GCT	
Hs	TCC ATC ATC CTT TTT GCA CTT CAA GAT ACT AAA ATT TCA GAA TGG	270
Pt	TCC ATC ATC CTT TTT GCA CTT CAA GAG ACT AAA ATT TCA GAA TGG	
Hs	AAA CTA GGA CTA TGT ACA CCA GAA ACA CTG TTT TGT TGT GAT GTT	315
Pt	AAA CTA GGA CTA TAT ACA CCA GAA ACA CTG TTT TGT TGT GAC GTT	
Hs	ACA AAA TAT AAC TCC CCA ACT AAT TTC CAG ATA GAT GGA AGA AAT	360
Pt	GCA AAA TAT AAC TCC CCA ACT AAT TTC CAG ATA GAT GGA AGA AAT	
Hs	AGA AAA GTG ATT ATG GAC TTA AAG ACA ATG GAA AAT CTT GGA CTT	405
Pt	AGA AAA GTG ATT ATG GAC TTA AAG ACA ATG GAA AAT CTT GGA CTT	
Hs	GCT CAA AAT TGT ACT ATC TCT ATT CAG GAT TAT GAA GTT TTT CGA	450
Pt	GCT CAA AAT TGT ACT ATC TCT ATT CAG GAT TAT GAA GTT TTT CGA	

FIGURE 16

Hs	TGC GAA GAT TCA CTG GAT GAA AGA AAG ATA AAA GGG GTC ATT GAG 495
Pt	<u>TGC GAA GAT TCA CTG GAC GAA AGA AAG ATA AAA GGG GTC ATT GAG</u>
Hs	CTC AGG AAG AGC TTA CTG TCT GCC TTG AGA ACT TAT GAA CCA TAT 540
Pt	CTC AGG AAG AGC TTA CTG TCT GCC TTG AGA ACT TAT GAA CCA TAT
Hs	GGA TCC CTG GTT CAA CAA ATA CGA ATT CTC CTC CTG GGT CCA ATT 585
Pt	GGA TCC CTG GTT CAA CAA ATA CGA ATT CTG CTC CTG GGT CCA ATT
Hs	GGA GCT CCC AAG TCC AGC TTT TTC AAC TCA GTG AGG TCT GTT TTC 630
Pt	GGA GCT GGG AAG TCT AGC TTT TTC AAC TCA GTG AGG TCT GTT TTC
Hs	CAA GGG CAT GTA ACG CAT CAG GCT TTG GTG GGC ACT AAT ACA ACT 675
Pt	CAA GGG CAT GTA ACG CAT CAG GCT TTG GTG GGC ACT AAT ACA ACT
Hs	GGG ATA TCT GAG AAG TAT AGG ACA TAC TCT ATT AGA GAC GGG AAA 720
Pt	GGG ATA TCT GAG AAG TAT AGG ACA TAC TCT ATT AGA GAC GGG AAA
Hs	GAT GGC AAA TAC CTG CCG TTT ATT CTG TGT GAC TCA CTG GGG CTG 765
Pt	GAT GGC AAA TAC CTG CCA TTT ATT CTG TGT GAC TCA CTG GGG CTG
Hs	AGT GAG AAA GAA GGC GGC CTG TGC AGG GAT GAC ATA TTC TAT ATC 810
Pt	AGT GAG AAA GAA GGC GGC CTG TGC AGG GAT GAC ATA TCC TAC ATC
Hs	TTG AAC GGT AAC ATT CGT GAT AGA TAC CAG TTT AAT CCC ATG GAA 855
Pt	TTG AAC GGT AAC ATT CGT GAT AGA TAC CAG TTT AAT CCC ATG GAA
Hs	TCA ATC AAA TTA AAT CAT CAT GAC TAC ATT GAT TCC CCA TCG CTG 900
Pt	TCA ATC AAA TTA AAT CAT CAT GAC TAC ATT GAT TCC CCA TCG CTG

FIGURE 16 (CONT.)

Hs	AAG GAC AGA ATT CAT TGT GTG GCA TTT GTA TTT GAT GCC AGC TCT	945
Pt	AAG GAC AGA ATT CAT TGT GTG GCA TTT GTA TTT GAT GCC AGC TCT	
Hs	ATT CAA TAC TTC TCT CAG ATG ATA GTA AAG ATC AAA AGA ATT	990
Pt	ATT GAA TAC TTC TCT CAG ATG ATA GTA AAG ATC AAA AGA ATT	
Hs	CAA AGG GAG TTG GTA AAC GCT GGT GTG GTA CAT GTG GCT TTG CTC	1035
Pt	CGA AGG GAG TTG GTA AAC GCT GGT GTG GTA CAT GTG GCT TTG CTC	
Hs	ACT CAT GTG GAT AGC ATG GAT TTG ATT ACA AAA GGT GAC CTT ATA	1080
Pt	ACT CAT GTG GAT AGC ATG GAT CTG ATT ACA AAA GGT GAC CTT ATA	
Hs	GAA ATA GAG AGA TGT GAG CCT GTG AGG TCC AAG CTA GAG GAA GTC	1125
Pt	GAA ATA GAG AGA TGT GTG CCT GTG AGG TCC AAG CTA GAG GAA GTC	
Hs	CAA AGA AAA CTT GGA TTT GCT TCT TCT GAC ATC TCG GTG GTT AGC	1170
Pt	CAA AGA AAA CTT GGA TTT GCT TCT TCT GAC ATC TCG GTG GTT AGC	
Hs	AAT TAT TCC TCT GAG TGG GAG CTG GAC CCT GTA AAG GAT GTT CTA	1215
Pt	AAT TAT TCC TCT GAG TGG GAG CTG GAC CCT GTA AAG GAT GTT CTA	
Hs	ATT CTT TCT GCT CTG AGA CGA ATG CTA TGG GCT GCA GAT GAC TTC	1260
Pt	ATT CTT TCT GCT CTG AGA CGA ATG CTA TGG GCT GCA GAT GAC TTC	
Hs	TTA GAG GAT TTG CCT TTT GAG CAA ATA GGG AAT CTA AGG GAG GAA	1305
Pt	TTA GAG GAT TTG CCT TTT GAG CAA ATA GGG AAT CTA AGG GAG GAA	
Hs	ATT ATC AAC TGT GCA CAA GGA AAA AAA TAG (SEQ. ID. NO. 34)	1335
Pt	ATT ATC AAC TGT GCA CAA GGA AAA AAA TAG (SEQ. ID. NO. 31)	

FIGURE 16 (CONT.)